

Name: \_\_\_\_\_

**Quiz: Manipulating Flight Formulas**

1. Which of the following formulas represents the formula for fuel consumption?
  - A.  $r = gt$
  - B.  $g = rt$
  - C.  $t = rg$
  - D.  $grt = f$
2. If a pilot flies for 4:28 with a total of 80 gallons of fuel, *approximately*, what is the planes rate of fuel consumption?
  - A. 9
  - B. 11
  - C. 18
  - D. 28
3. A pilot flies for 1:29 and the aircraft uses fuel at a rate of 9.8 gallons per hour. ***Approximately***, how many gallons of fuel will the aircraft use?
  - A. 7
  - B. 13
  - C. 15
  - D. 20
4. A pilot flies for 4 and a half hours and the aircraft uses fuel at a rate of 12.4 gallons per hour. How many gallons of fuel will the aircraft use?
  - A. 2.76
  - B. 2.88
  - C. 53.32
  - D. 55.8
5. If a pilot flies for 8:42 and the aircraft uses fuel at a rate of 12.7 gallons per hour, how many gallons of fuel will the aircraft use?
  - A. 102.3
  - B. 106.93
  - C. 110.49
  - D. 143
6. If an aircraft use 400 gallons of fuel and flew for 8:25, what is the rate of fuel consumption?
  - A. 12.5
  - B. 33.67
  - C. 47.5
  - D. 50
7. ***Approximately*** how much fuel is consumed if a pilot travels for 4:52 at a consumption rate of 12.3?
  - A. 3
  - B. 43
  - C. 56
  - D. 60
8. If an aircraft use 76 gallons of fuel and the rate of fuel consumption is 12.4, ***approximately*** how long was the flight?
  - A. 6
  - B. 12
  - C. 25
  - D. 61
9. If an aircraft use 16.7 gallons of fuel and the rate of fuel consumption is 5.3, how long was the flight?
  - A. 3:15
  - B. 3:09
  - C. 1:48
  - D. 1:14
10. If an aircraft is in the air for 2:43 and the rate of consumption is 7.8, how much fuel did the plane consume?
  - A. 3.21
  - B. 7.959
  - C. 18.95
  - D. 21.19

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